

## ABSTRACT

### Linear synchronous motor

In order to suppress virtually completely the cyclic power variation of a linear synchronous motor, the latter has the following features. At least one primary part (1) and at least one secondary part (6), which has a sequence of poles (10) formed by permanent magnets, and is also larger than the length of the primary part (1) in the movement direction (5). The primary part (1) has primary slots (9) which are suitable for receiving monophasic or polyphase windings. Moreover, the primary part (1) has means for changing the magnetic force in the movement direction (5) of the linear motor in the region of the end piece (2) of the primary part (1). The end faces (14) of the end pieces (2) extend perpendicular to the movement direction (5) of the linear motor.

FIG. 2